

Nomagic Shoebox Gripper

First robust solution for picking diverse warehouse shoeboxes

Key Product Functionalities

- Reliably grips unsealed shoeboxes, keeping the loose lid and base fully intact.
- Enables end-to-end, fully automated picking, sorting, and packing of shoeboxes.
- Intelligently handles fragile packaging without crushing or damage.

Target Industries

- E-commerce Fulfillment
- Footwear & Apparel Logistics
- Third-Party Logistics (3PL)
- Retail & Omni-channel Distribution

Key Innovation Components

- **AI Perception:** Accurately detects shoeboxes in any orientation within cluttered, mixed-item bins
- **Proprietary Mechanical Design:** Uniquely secures both the box base and its loose, unsealed lid at the same time.
- **Mixed-Bin Integration:** Integrates with automatic tool changers, allowing one robot to handle shoeboxes and other items.

Key metrics

SKU Coverage	98% of shoebox design currently on the market
Payload	Up to 4 kg (depending on shoebox type)
Grip Range	Box dimensions from 7 cm (minimum side length) to 60 cm (maximum side length)
Throughput - shoebox only bins	Up to 450 units per hour (UPH)
Throughout - Mixed bins	Up to 600 units per hour (UPH)